The LED Flame Bar™ is a state-of-the-art Animated LED Flame Effects unit. It is a tube containing 96 specially designed and individually positioned High Brightness LED's. Combining this with the latest microelectronic control creates the illusion of an extremely realistic moving fire simulation.

The Effect is a self-contained stand-alone unit housed in a tube measuring 510mm (20") long and 32mm(1.25") in diameter and rated at IP64 which makes it suitable for outdoor application as well as indoor displays. Each LED Flame Bar™ requires only a remotely mounted 5vdc Supply to complete the installation.

The image from the tube can be projected onto flat or relief surfaces dependent upon your desired visual effect.

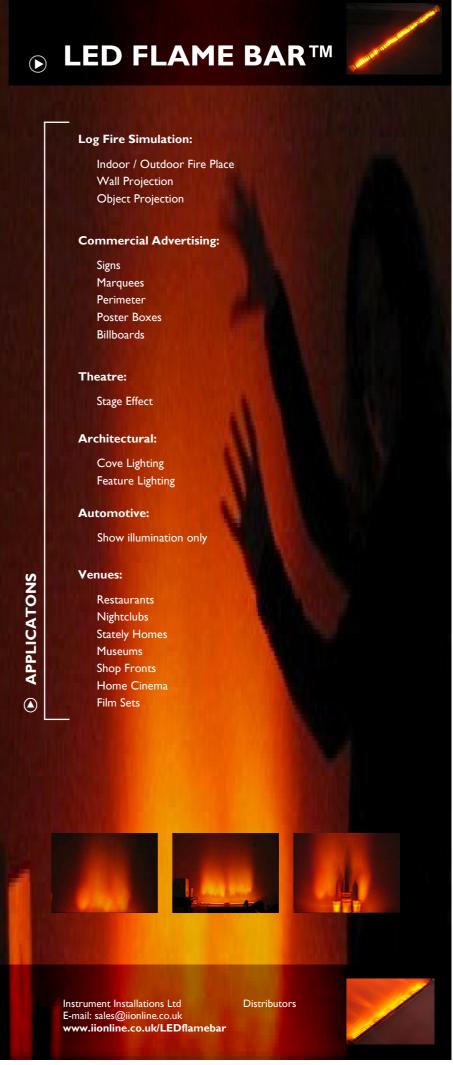
Further variations can be created if objects are placed between the LED Flame Bar^{TM} and the final projected surface.

This a Stunning Visual Effect for any Environment.

Animated Fire & Flame Effect Maintenance Free Versatile Water Proof (IP64) Short Projection distances Low Voltage Long Life design

Alternative to silk flame effects
Fit & Forget
Suitable for Indoors and Outdoors
Allows compact displays
No Noise
Low Heat
Safe Fire Effect

Note: The unit is intended to be installed by a professional installer and is only suitable for adult use.







HOME THEARTRE



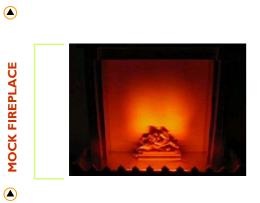
Electrical Specification (τa=25°C)			
	SYMBOL	RATING	UNIT
Power Supply Requirements	Watts	12.5	W
	Voltage	Max 5.0	V dc
	Current	Min 2.5	A dc



Mechanical Specification (Ta=25°C)		
	RESULTS	
Ingress Protection	IP64	
Tube Temperature External (Ta=25°C)	30°C	
Max Recommended Ambient Temp	40°C	
Tube	Clear Acrylic	
Tube Grommet Ends	Ethylene propylene diene monomer rubber	



Optical Specification (Ta=25°C)		
	LUMINOUS INTENSITY	UNIT
Orange LED(1.)	1530—7360	Lv(mcd) / LED
Amber LED ^(1.)	3600 — 10700	Lv(mcd) / LED
Suggested Only (2.) Projection Distances	~50mm (~2in) Min to ~700mm (~28in) Max	
Suggested Only Resultant Image Size (3.)	~500—600mm (~20-24in) Width x ~400—1000mm (~16-40in) Height	
Guidance Notes	1. this is predominately a night time effect with reduced surround ambient Lighting. 2. by moving the LED Flame Bar™ various distances and angles, different Image Sizes and Shapes can be produced ranging from a fire to flames. Taking the projection distance out of ranges suggested can create mood lighting of fire light around the room. Experiment to gain the best result for your application. 3. image size is dependant on mounting distance from projected surface and angle of rotation of the LED Flame Bar™ to that surface. The luminous intensity will also alter with these variation.	



Product Order Code			
MODEL	ORDER CODE	ELECTRICAL C	ONNECTIONS
LED FLAME BAR™	iiFB500/*	Wire ends (we) Polarized crimps (pc) Plug connector (Pg)	*Specified at place- ment of order



Instrument Installations Ltd E-mail: sales@iionline.co.uk www.iionline.co.uk/LEDflamebar

Distributors



WALL PROJECTION

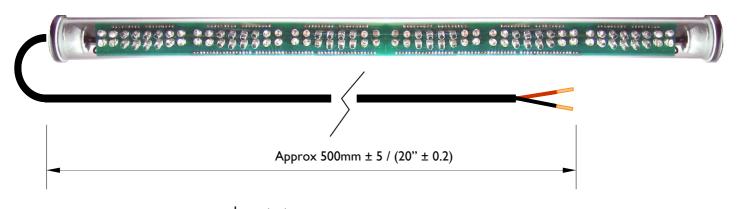




MECHANICAL DETAIL Diagram



ELECTRICAL CONNECTION Diagram



Important:

IF extending Supply cable, consider volts drop

RED	+5vdc	PSU 5vdc @ 2.5 amps
BLACK	0vdc	DO NOT Reverse Polarity

Sample Cable Label

These LED devices are measured to be AEL Class 2 LED Products per IEC 825-1 and CENELEC EN60825-1 Standards when operated at the maximum data sheet dc drive current.

Warning Eye Safety, Do Not Stare into light beam of these LED devices at close range.

Sample Cable Label

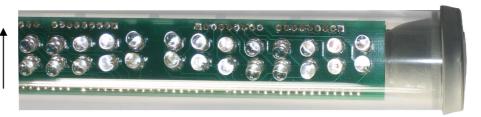
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MOUNTING DETAIL Diagram

Direction of Animation



TOP
This way UP BOTTOM

LED Flame Bar

Mount so Label reads correct way.

Serial No FBXXXX-01F

Warning Eye Safety, Do Not Stare into light beam of these LED devices at close range.

Sample Tube Label

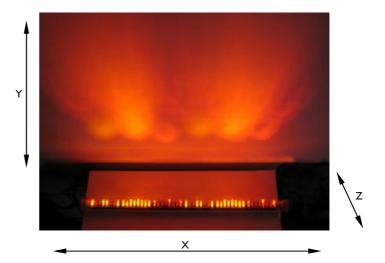
Important:

Direction of Animation is determined by the LED Flame BarTM's orientation. Each LED Flame is made up of a crescent of LED's, the bowl of the crescent identifies the direction of animation. This should be at the bottom if an upward animation is required, (fire usually goes up).

Please take note of LED form and Tube Label to help identify this.

Colour of Projected surface should be considered and Ambient light sources from other sources kept to a minimum. Creams and Browns work well. White can sometimes be a bit too reflective and black can take away some of the colours. Experiment to gain the best result for your application.

Mount Horizontally Only, do not cover



Suggested Only Projection Distances $Z = \sim 50 \text{mm} (\sim 2 \text{in}) \text{ Min to } \sim 700 \text{mm} (\sim 28 \text{in}) \text{ Max}$

Suggested Only Resultant Image Size $X = \sim 500 - 600 \text{mm} \ (\sim 20-24 \text{in}) \ \text{Width x Y} = \sim 400 - 1000 \text{mm} \ (\sim 16-40 \text{in}) \ \text{Height}$

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DO'S & DON'TS		
	NOTICE	
Eye Safety Warning!	Do Not Stare into LED's.	
	Do Not Stare into light beam of these LED devices at close range.	
Usage Warning!	These LED devices are measured to be AEL Class 2 LED Products per IEC 825-1 and CENELEC EN60825-1 Standards when operated at the maximum data sheet dc drive current.	
Connection Warning!	Incorrect wiring of LED Flame Bar^{TM} can result in irreparable damage to the LED's and power supply, this includes voltage and polarity.	
Cable Warning!	Do Not Extend the Power Flex without correct Volts Drop Considerations	



Information contained in this publication regarding device and applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications. INSTRUMENT INSTALLATIONS LTD MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, STATUTORY OR OTHERWISE, RELATING TO THE INFORMATION, INCLUDING BUT NOT LIMITED TO ITS CONDITION, QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR PURPOSE. Instrument Instillations Ltd disclaims all liability arising from this information and its use. No licenses are conveyed, implicitly or otherwise, under any Instrument Installations Ltd intellectual property rights. Colours depicted are limited by printing and photographic processes.

PRODUCTS RELATING TO OR CONTAINING LEDS		
	NOTICE	
LED's—Life Expectancy	The LED's used are specifically designed for Commercial Outdoor Advertising. Their typical operating life before catastrophic failure is far in excess of 100,000 hour (11.4 years). However their reliability can depend on several influences outside the designer's control, for example ambient temperature variations / extremes, moisture, ingress of water, and direct sunlight. These influences can lead to a life expectancy variation of 20,000 – 100,000 hours.	
Electronics	The electronics used would be expected to out perform the LED's, remembering that the electronics can also be effected by the same environmental influences etc.	
Packaged Product	To ensure longevity, the final product should not be subjected to (but not limited to) being: bent, stressed, submerged in any liquid, drilled, glued, dropped, subjected to vibration, high humidity, direct sunlight or extreme high/low temperatures or have it's seal broken. LED's and Electronic components should always be mounted in housings fit for purpose, i.e. water proofed if installed outside etc.	
Mounting and Positioning	Care must be taken not to expose the final product to direct dripping water or any extreme environment conditions	
Safety Information	All circuits within Packaged product are at 5vdc – 27vdc unless otherwise stated and classed as low voltage. Any LED product supplied unless otherwise stated should assume to have used LED devices measured to be AEL Class 2 LED Products per IEC 825-1 and CENELEC EN60825-1 Standards when operated at the maximum data sheet dc drive current. Therefore for Eye Safety, DO NOT STARE INTO LIGHT BEAM OF THESE LED DEVICES AT CLOSE RANGES.	
Cleaning	Use a Damp cloth.	
Design Change	We reserve the right to alter the design, which will enable us to continually improve the quality and the reliability of our product.	

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